

Abstract of the Disclosure

Provided is a method of replicating a nucleic acid array, the method including:

(a) manufacturing a template nucleic acid array by immobilizing on a surface of a first substrate first nucleic acid probes, each of which includes a first polynucleotide that has a sequence complementary to a second polynucleotide to be synthesized and a primer binding site; (b) binding a primer to the primer binding site of each of the first nucleic acid probes immobilized on the surface of the first substrate of the template nucleic acid array; (c) in-situ synthesizing a second polynucleotide initiating from the primer using the first polynucleotide as a template; and (d) transferring second nucleic acid probes, each of which includes the second polynucleotide and the primer, to a second substrate from the first substrate.